

CUBIT Capability Proposal

Technical Area

Geometry, Meshing, Infrastructure, GUI, Graphics, etc..

Technical Lead

Cubit Developer in charge of technical area

Support-Documentation	Steve Owen
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MRD Description

Describe the capability in terms of how a user would see it.

Provide an online mesh modification tutorial
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SRS Description

What needs to be done by Cubit developers to implement this capability? Break the tasks into steps if applicable. (Steps should be on the order of 2 man-weeks or more)

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| <ol style="list-style-type: none">1. Assuming a fairly simple strategy for meshing, you could employ different techniques for looking at the quality of the mesh and improving it. This might include node creation, node deletion, node merging, refinement, coarsening, smoothing, automatic mesh sizing. The mesh improvement power tool could be used to look at the quality and perform the improvement operations. |
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Justification

Describe why this is important and what impact it will have if it is implemented. (or not implemented).

Highlights the new mesh modification techniques

Resources

Who will work on this

Time estimate

How much time will it take in man-weeks

Targeted Release

10.2 (August 06), 10.3 (March 2007), 10.4 (August 2007), Future (beyond FY07)

Sara Richards	2 man-weeks (maybe less)	10.2
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Submitted By:

Sara Richards	April 3, 2006
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Date: